FIG. 1

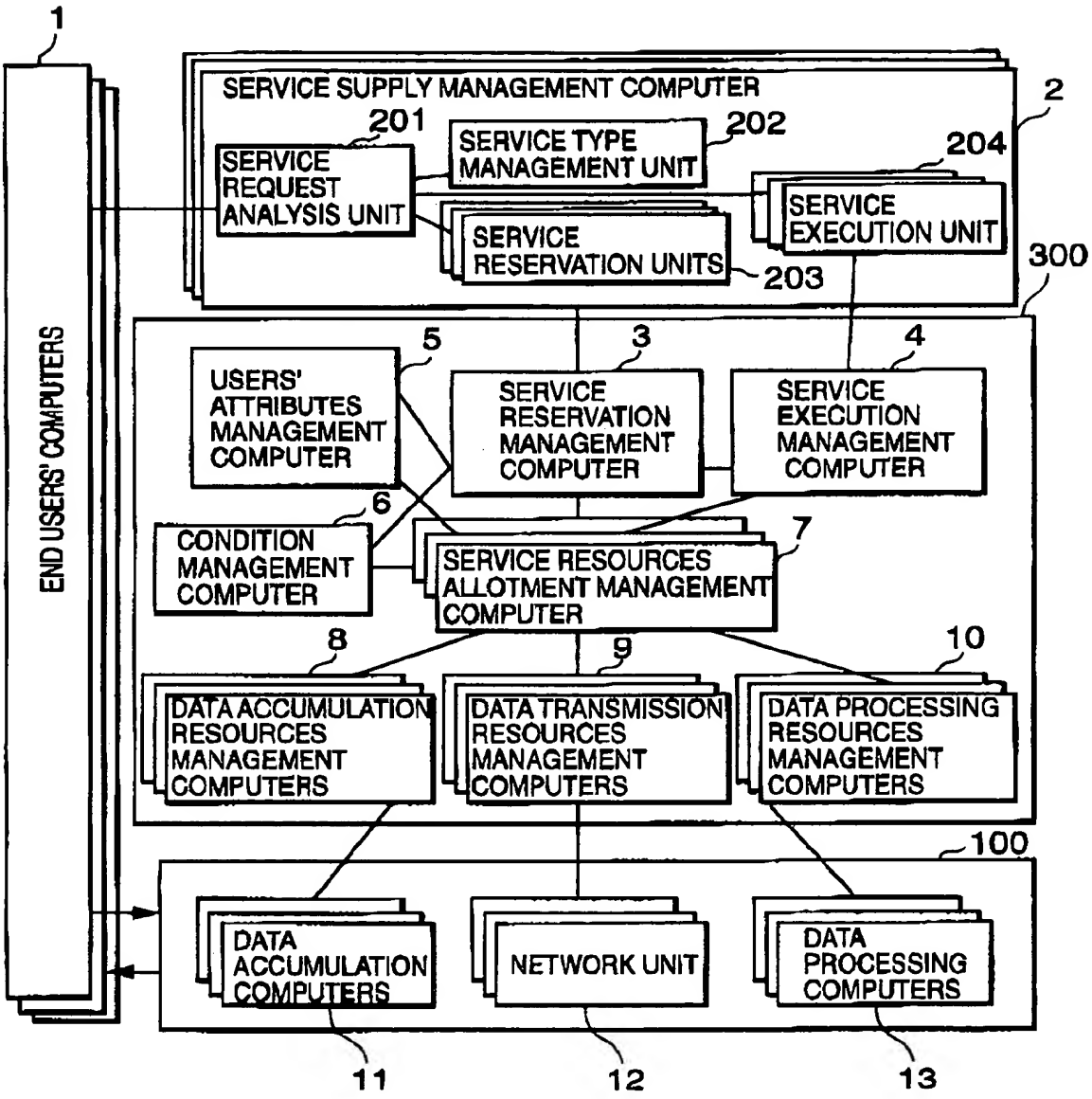

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FIG. 2

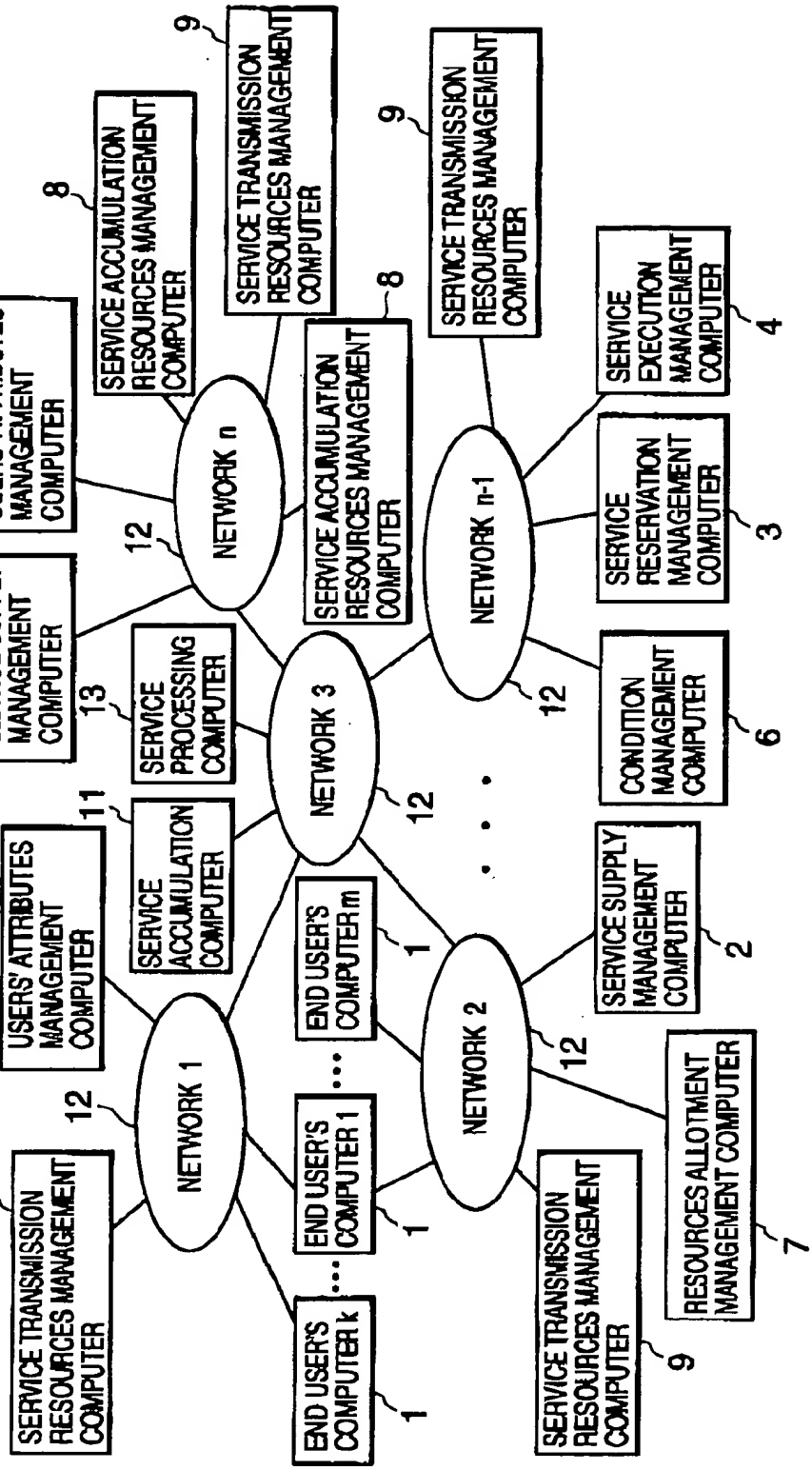
SERVICE TRANSMISSION RESOURCES MANAGEMENT COMPUTER
9
USERS' ATTRIBUTES MANAGEMENT COMPUTER
5
SERVICE ACCUMULATION COMPUTER
11
SERVICE SUPPLY MANAGEMENT COMPUTER
2
SERVICE PROCESSING COMPUTER
13
USERS' ATTRIBUTES MANAGEMENT COMPUTER
5
SERVICE ACCUMULATION RESOURCES MANAGEMENT COMPUTER
8
SERVICE TRANSMISSION RESOURCES MANAGEMENT COMPUTER
9
SERVICE ACCUMULATION RESOURCES MANAGEMENT COMPUTER
8
SERVICE TRANSMISSION RESOURCES MANAGEMENT COMPUTER
9
SERVICE EXECUTION MANAGEMENT COMPUTER
4
SERVICE RESERVATION MANAGEMENT COMPUTER
3
CONDITION MANAGEMENT COMPUTER
6
SERVICE SUPPLY MANAGEMENT COMPUTER
2
RESOURCES ALLOTMENT MANAGEMENT COMPUTER
7
SERVICE TRANSMISSION RESOURCES MANAGEMENT COMPUTER
9
NETWORK 1
12
NETWORK 2
12
NETWORK 3
12
NETWORK n
12
NETWORK n-1
12
END USER'S COMPUTER k
1
END USER'S COMPUTER 1
1
END USER'S COMPUTER m
1

FIG. 3

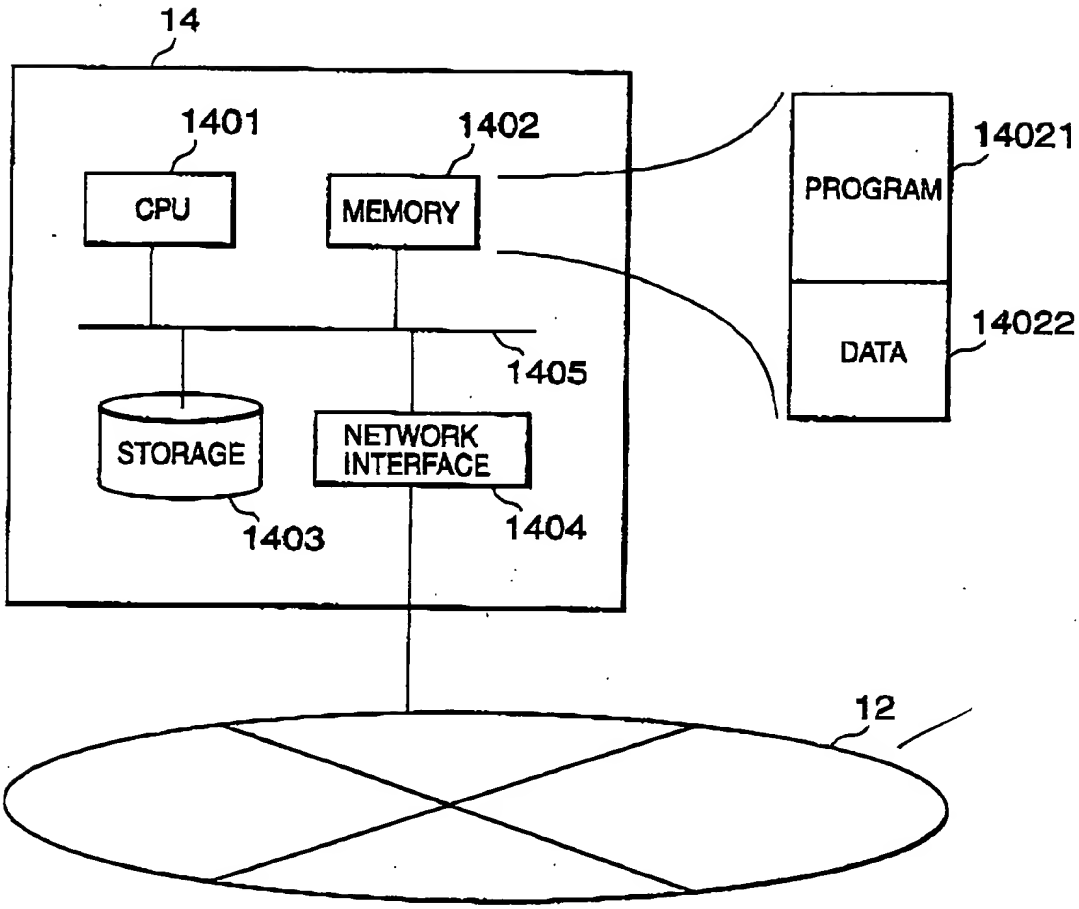

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FIG. 4

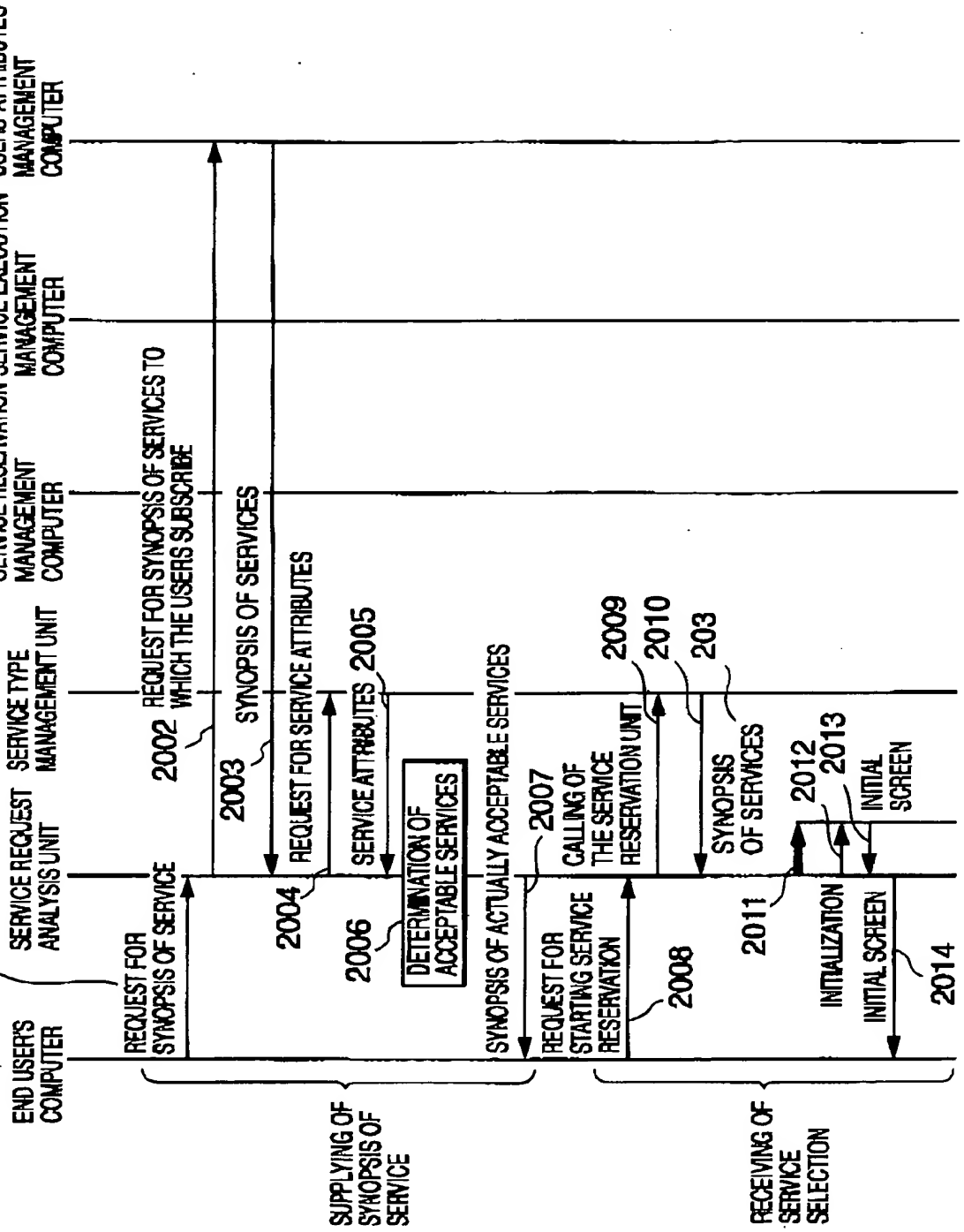
1
END USER'S COMPUTER
2001
SERVICE REQUEST ANALYSIS UNIT
201
SERVICE TYPE MANAGEMENT UNIT
202
SERVICE RESERVATION MANAGEMENT COMPUTER
3
SERVICE EXECUTION MANAGEMENT COMPUTER
4
USERS' ATTRIBUTES MANAGEMENT COMPUTER
5
REQUEST FOR SYNOPSIS OF SERVICE
2002 REQUEST FOR SYNOPSIS OF SERVICES TO WHICH THE USERS SUBSCRIBE
2003 SYNOPSIS OF SERVICES
2004 REQUEST FOR SERVICE ATTRIBUTES
2005 SERVICE ATTRIBUTES
2006 DETERMINATION OF ACCEPTABLE SERVICES
2007 SYNOPSIS OF ACTUALLY ACCEPTABLE SERVICES
2008 REQUEST FOR STARTING SERVICE RESERVATION
2009 CALLING OF THE SERVICE RESERVATION UNIT
2010
203 SYNOPSIS OF SERVICES
2011
2012 INITIALIZATION
2013 INITIAL SCREEN
2014 INITIAL SCREEN
SUPPLYING OF SYNOPSIS OF SERVICE
RECEIVING OF SERVICE SELECTION

FIG. 5

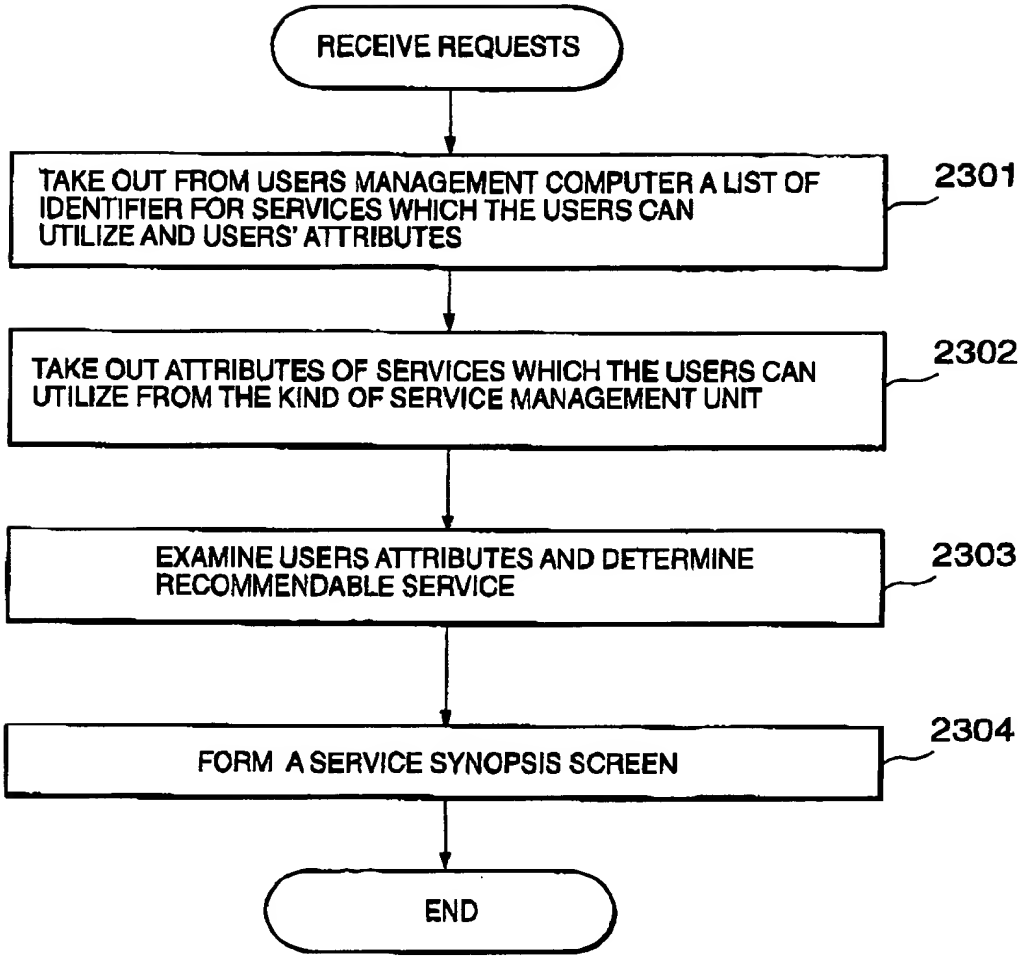

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FIG. 6

5002 USER DISCRIMINATORS	5003 NAME OF USERS	5004 KIND OF MEMBERSHIP	5005 SUBSCRIPTION SERVICE	5006 NETWORK CONNECTION INFORMATION	5001
1001	HITACHI	CORPORATION	101,102		...
1002	JOHN	INDIVIDUAL STANDARD	102,103,201,211		...
1003	TOM	INDIVIDUAL ECONOMY	103,202,212		...

0007B0 "02S5960

FIG. 7

5101

5102 SERVICE IDENTIFIER	5103 NAME OF SERVICES	5104 LOGICAL RESOURCES INFORMATION	5105 SERVICE RESERVATION UNIT	5106 SERVICE EXECUTION CONTROL UNIT
101	MULTI-POINT TELEVISION MEETING (HIGH IMAGE QUALITY)	6.3Mbps,LOW DELAY,TVConfBridge		
102	MULTI-POINT TELEVISION MEETING (INTERMEDIATE IMAGE QUALITY)	1.5Mbps,LOW DELAY,TVConfBridge		
103	MULTI-POINT TELEVISION MEETING (ECONOMY)	100Kbps,TVConfBridge		
201	PREVIEW OF A NEWLY PRODUCED MOTION PICTURE (HIGH IMAGE QUALITY)	6.3Mbps,MPEGserver		
202	PREVIEW OF A NEWLY PRODUCED MOTION PICTURE (LOW CHARGE)	1.5Mbps,MPEGserver		
211	MAIN COMPILATION OF A NEWLY PRODUCED MOTION PICTURE (HIGH IMAGE QUALITY)	6.3Mbps,MPEGserver		
212	MAIN COMPILATION OF THE NEWLY PRODUCED MOTION PICTURE (LOW CHARGE)	1.5Mbps,MPEGserver		

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FIG. 8

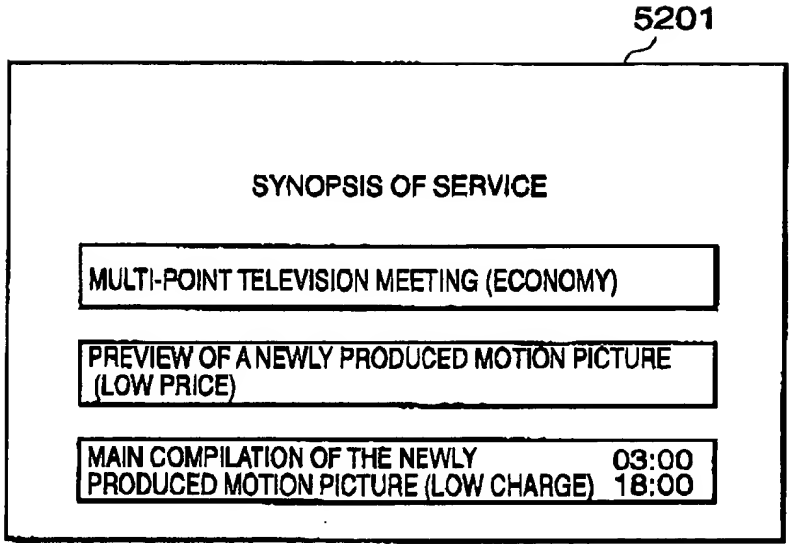

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FIG. 9

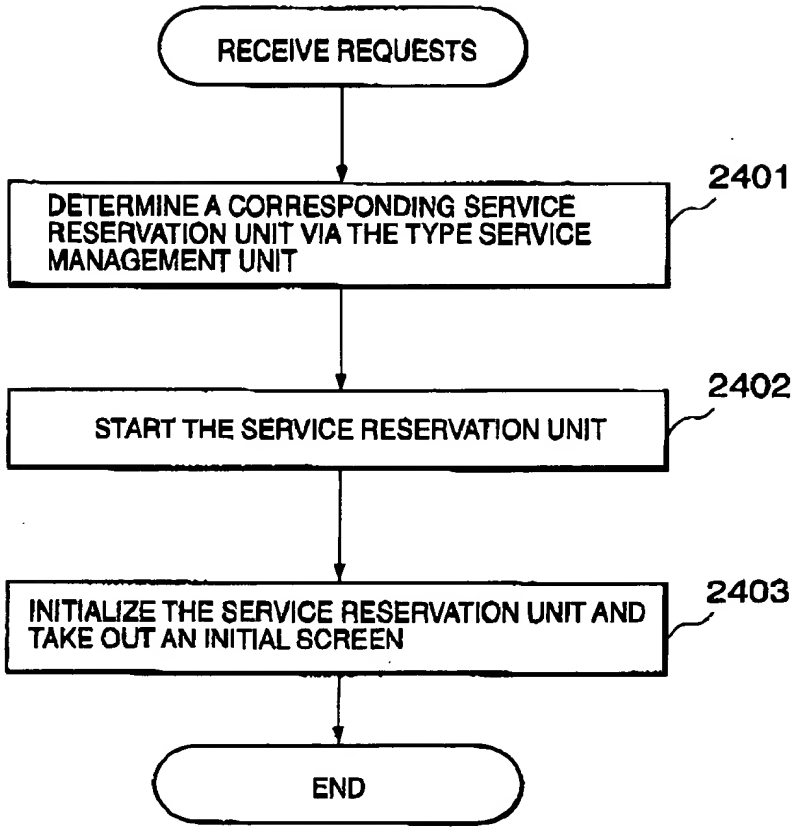

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FIG. 10

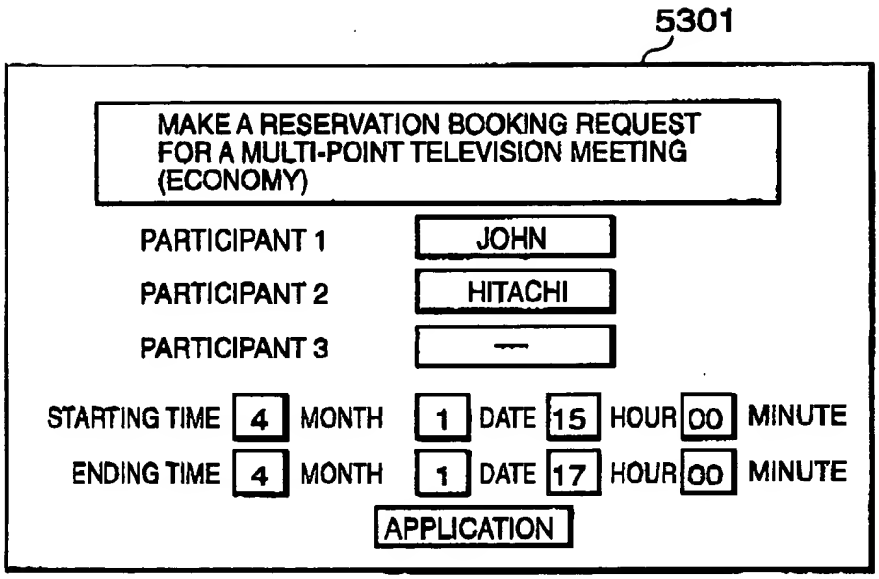

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FIG. 11

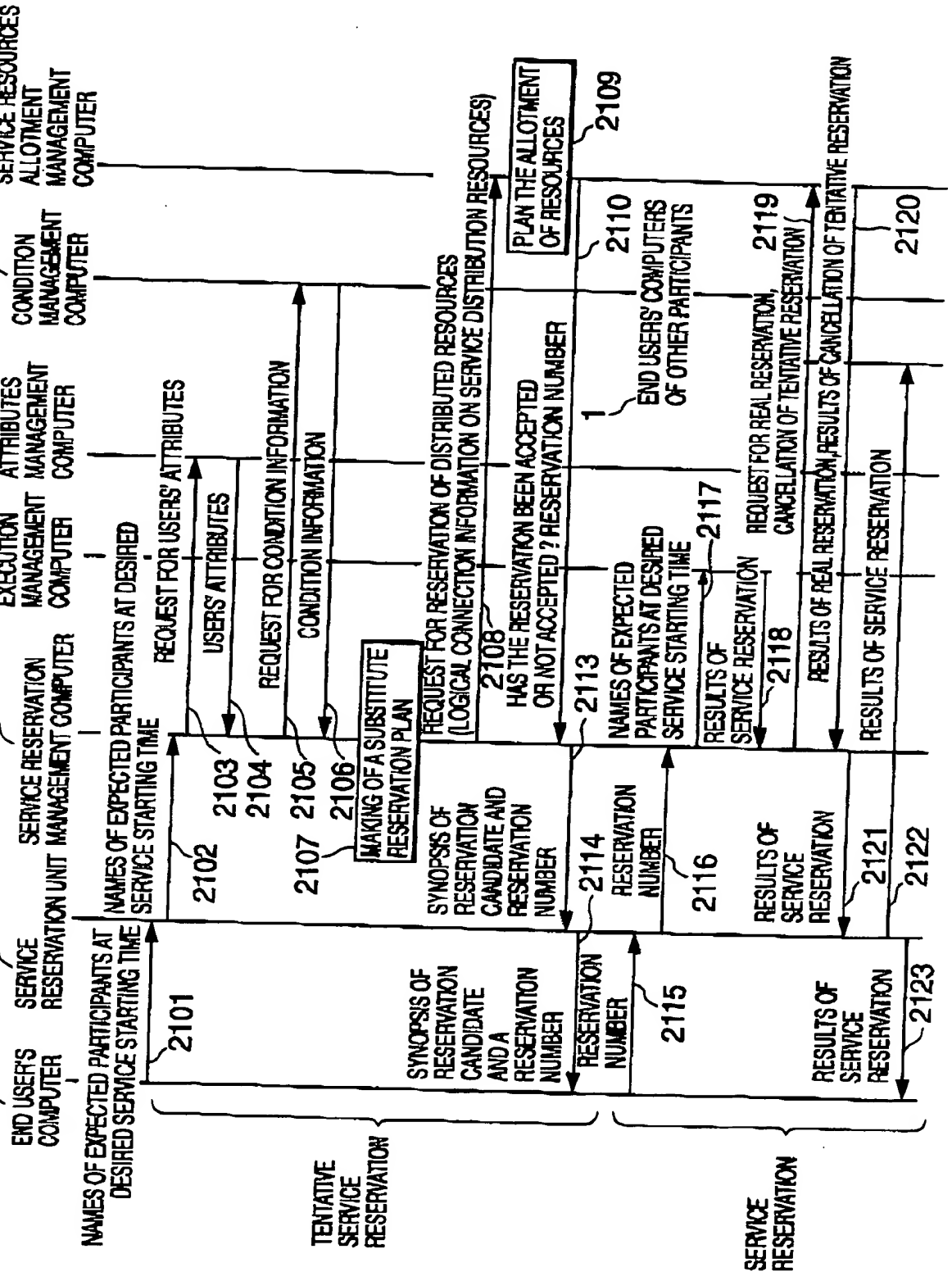
1
END USER'S COMPUTER
203
SERVICE RESERVATION UNIT
3
SERVICE RESERVATION MANAGEMENT COMPUTER
4
SERVICE EXECUTION MANAGEMENT COMPUTER
5
USERS' ATTRIBUTES MANAGEMENT COMPUTER
6
CONDITION MANAGEMENT COMPUTER
7
SERVICE RESOURCES ALLOTMENT MANAGEMENT COMPUTER
NAMES OF EXPECTED PARTICIPANTS AT DESIRED SERVICE STARTING TIME
2101
NAMES OF EXPECTED PARTICIPANTS AT DESIRED SERVICE STARTING TIME
2102
REQUEST FOR USERS' ATTRIBUTES
USERS' ATTRIBUTES
2103
USERS' ATTRIBUTES
2104
REQUEST FOR CONDITION INFORMATION
CONDITION INFORMATION
2105
2107
MAKING OF A SUBSTITUTE RESERVATION PLAN
2106
REQUEST FOR RESERVATION OF DISTRIBUTED RESOURCES (LOGICAL CONNECTION INFORMATION ON SERVICE DISTRIBUTION RESOURCES)
2108
PLAN THE ALLOTMENT OF RESOURCES
2109
HAS THE RESERVATION BEEN ACCEPTED OR NOT ACCEPTED ? RESERVATION NUMBER
2110
END USERS' COMPUTERS OF OTHER PARTICIPANTS
1
SYNOPSIS OF RESERVATION CANDIDATE AND A RESERVATION NUMBER
2113
NAMES OF EXPECTED PARTICIPANTS AT DESIRED SERVICE STARTING TIME
2117
RESULTS OF SERVICE RESERVATION
2118
REQUEST FOR REAL RESERVATION, CANCELLATION OF TENTATIVE RESERVATION
2119
RESULTS OF REAL RESERVATION, RESULTS OF CANCELLATION OF TENTATIVE RESERVATION
2120
RESULTS OF SERVICE RESERVATION
SYNOPSIS OF RESERVATION CANDIDATE AND A RESERVATION NUMBER
2114
RESERVATION NUMBER
2115
RESERVATION NUMBER
2116
RESULTS OF SERVICE RESERVATION
2121
RESULTS OF SERVICE RESERVATION
2122
RESULTS OF SERVICE RESERVATION
2123
TENTATIVE SERVICE RESERVATION
SERVICE RESERVATION

FIG. 12

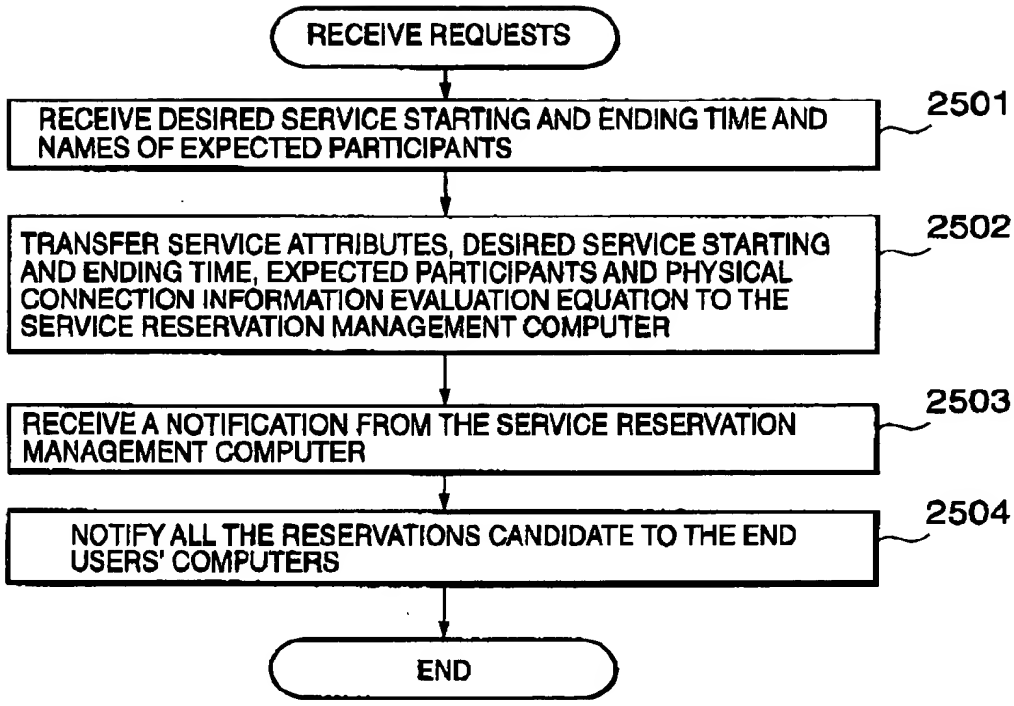

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FIG. 13

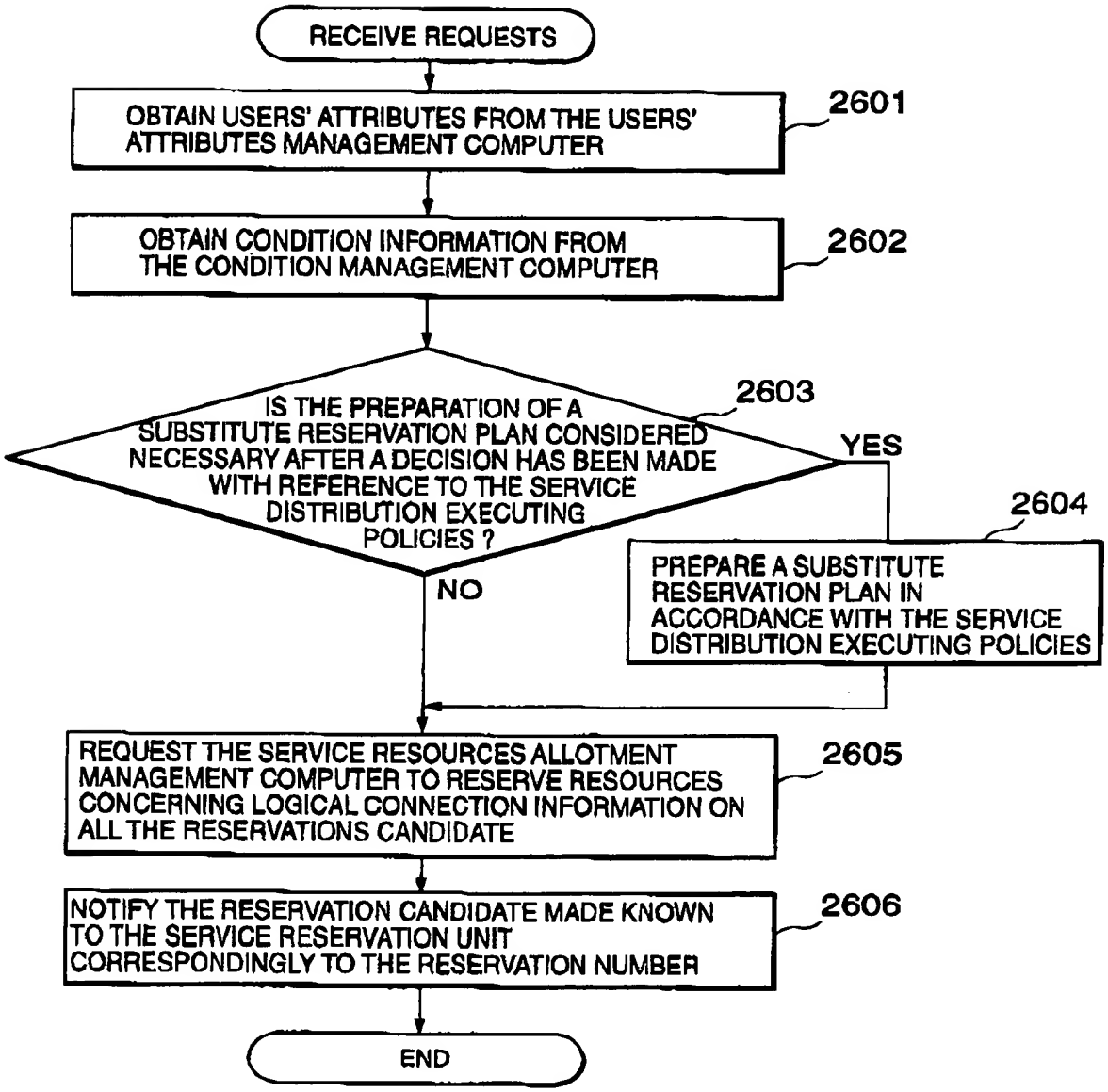

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FIG. 14

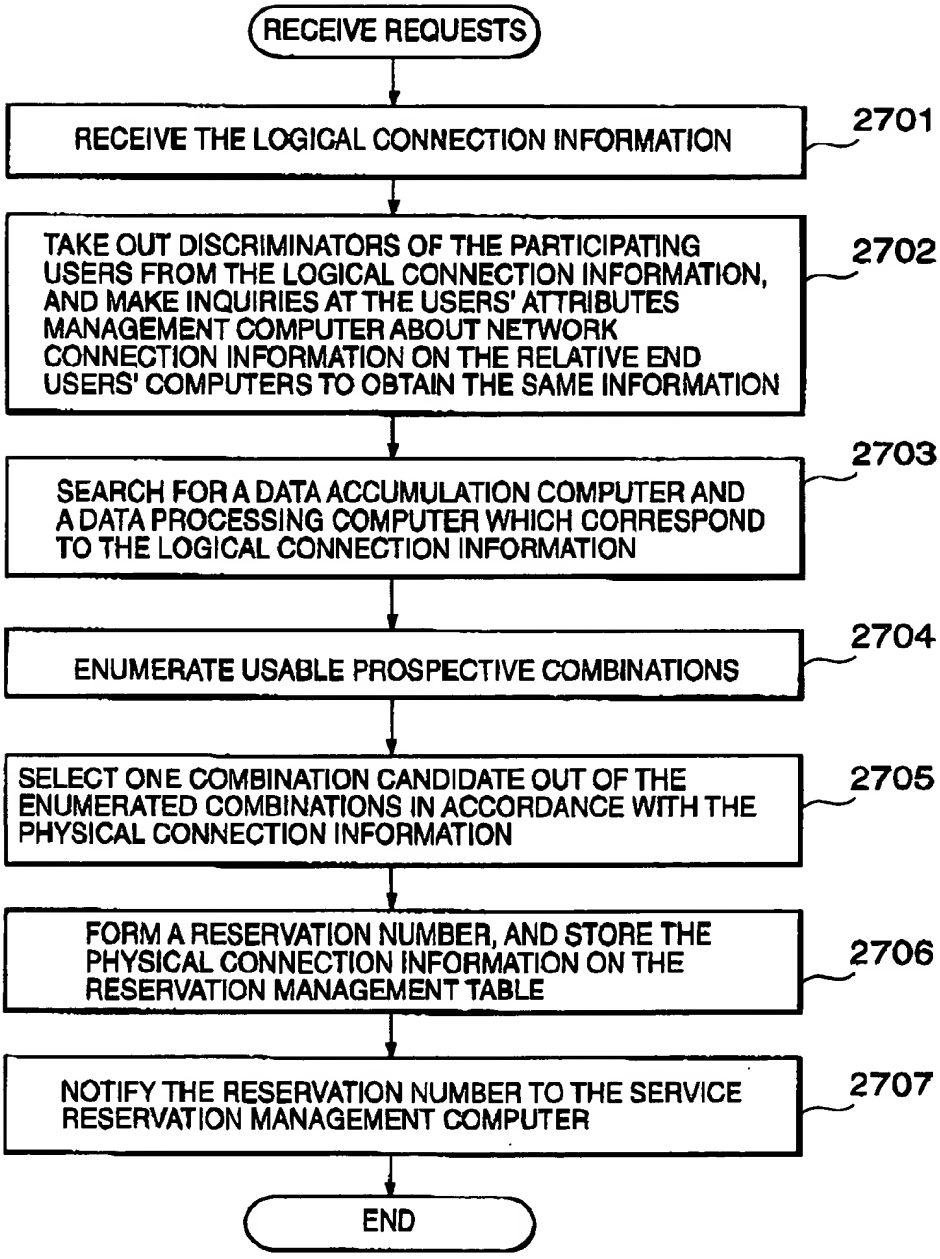

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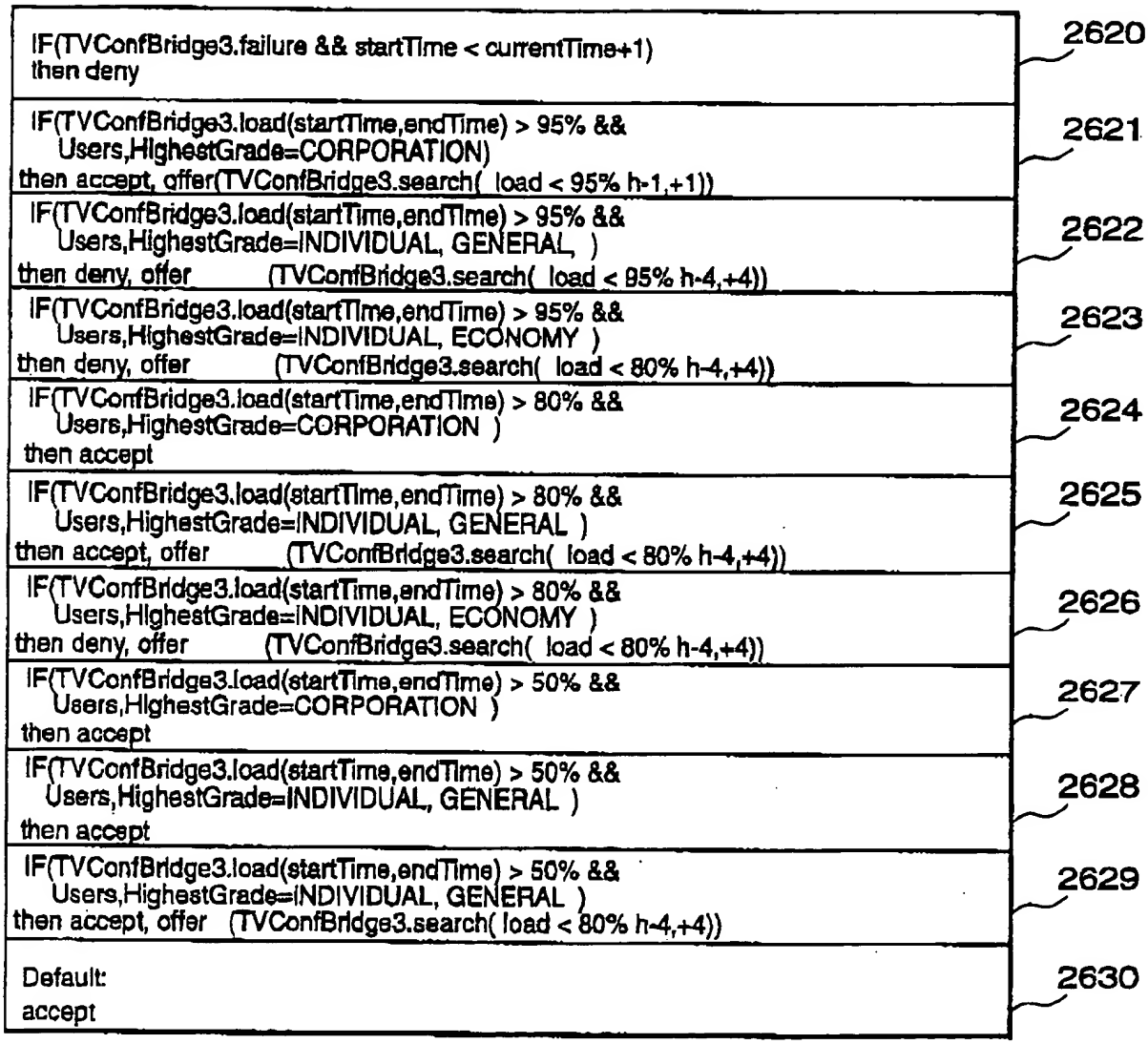
FIG. 15



0 0 0 3 5 0 W O - 0 0 4 0 0 0

FIG. 16

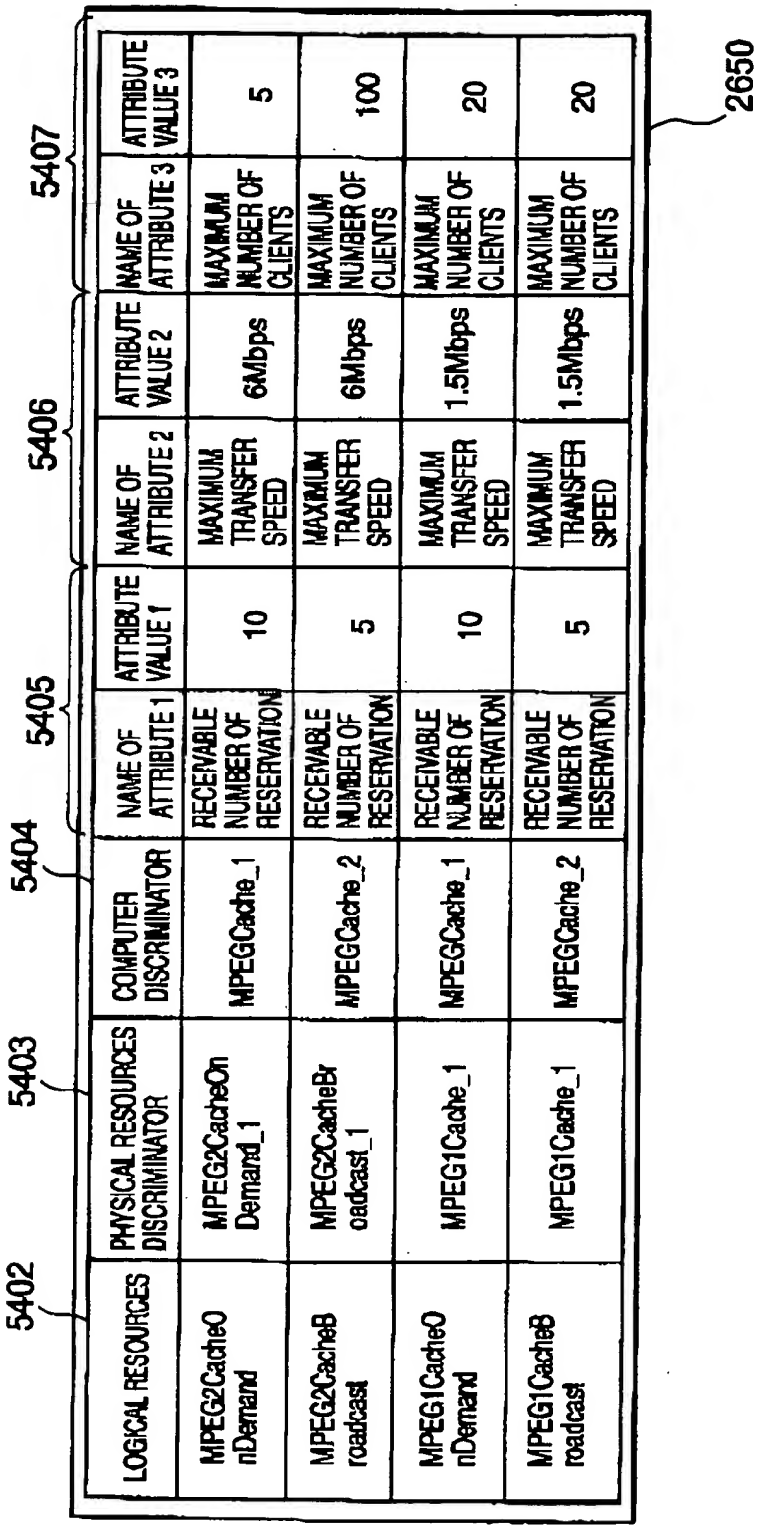

5402
5403
5404
5405
5406
5407
2650
LOGICAL RESOURCES
PHYSICAL RESOURCES DISCRIMINATOR
COMPUTER DISCRIMINATOR
NAME OF ATTRIBUTE 1
ATTRIBUTE VALUE 1
NAME OF ATTRIBUTE 2
ATTRIBUTE VALUE 2
NAME OF ATTRIBUTE 3
ATTRIBUTE VALUE 3
MPEG2CacheOnDemand
MPEG2CacheOnDemand_1
MPEGCache_1
RECEIVABLE NUMBER OF RESERVATION
10
MAXIMUM TRANSFER SPEED
6Mbps
MAXIMUM NUMBER OF CLIENTS
5
MPEG2CacheBroadcast
MPEG2CacheBroadcast_1
MPEGCache_2
RECEIVABLE NUMBER OF RESERVATION
5
MAXIMUM TRANSFER SPEED
6Mbps
MAXIMUM NUMBER OF CLIENTS
100
MPEG1CacheOnDemand
MPEG1Cache_1
MPEGCache_1
RECEIVABLE NUMBER OF RESERVATION
10
MAXIMUM TRANSFER SPEED
1.5Mbps
MAXIMUM NUMBER OF CLIENTS
20
MPEG1CacheBroadcast
MPEG1Cache_1
MPEGCache_2
RECEIVABLE NUMBER OF RESERVATION
5
MAXIMUM TRANSFER SPEED
1.5Mbps
MAXIMUM NUMBER OF CLIENTS
20

FIG. 17

5502 LOGICAL RESOURCES	5503 PHYSICAL RESOURCES DISCRIMINATOR	5504 COMPUTER DISCRIMINATOR	5505 NAME OF ATTRIBUTE 1	ATTRIBUTE VALUE 1	5506 NAME OF ATTRIBUTE 2	ATTRIBUTE VALUE 2	5507 NAME OF ATTRIBUTE 3	ATTRIBUTE VALUE 3
TVConfBridge1	TVConfBridge1_1	TVConfBridge1	RECEIVABLE NUMBER OF RESERVATION	10	MAXIMUM NUMBER OF CONNECTION	10	MAXIMUM TRANSFER SPEED	6Mbps
TVConfBridge1	TVConfBridge1_2	TVConfBridge2	RECEIVABLE NUMBER OF RESERVATION	5	MAXIMUM NUMBER OF CONNECTION	5	MAXIMUM TRANSFER SPEED	6Mbps
TVConfBridge2	TVConfBridge2_1	TVConfBridge1	RECEIVABLE NUMBER OF RESERVATION	10	MAXIMUM NUMBER OF CONNECTION	10	MAXIMUM TRANSFER SPEED	1.5Mbps
TVConfBridge2	TVConfBridge2_2	TVConfBridge2	RECEIVABLE NUMBER OF RESERVATION	5	MAXIMUM NUMBER OF CONNECTION	5	MAXIMUM TRANSFER SPEED	1.5Mbps
TVConfBridge3	TVConfBridge3_1	TVConfBridge1	RECEIVABLE NUMBER OF RESERVATION	10	MAXIMUM NUMBER OF CONNECTION	10	MAXIMUM TRANSFER SPEED	100Kbps
TVConfBridge3	TVConfBridge3_2	TVConfBridge2	RECEIVABLE NUMBER OF RESERVATION	5	MAXIMUM NUMBER OF CONNECTION	5	MAXIMUM TRANSFER SPEED	100Kbps
SuperImpose1	SuperImpose1_1	SuperImpose1	RECEIVABLE NUMBER OF RESERVATION	10	MAXIMUM IMAGE TRANSFER SPEED	6Mbps		
SuperImpose2	SuperImpose2_1	SuperImpose2	RECEIVABLE NUMBER OF RESERVATION	10	MAXIMUM IMAGE TRANSFER SPEED	1.5Mbps		

2660

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FIG. 18

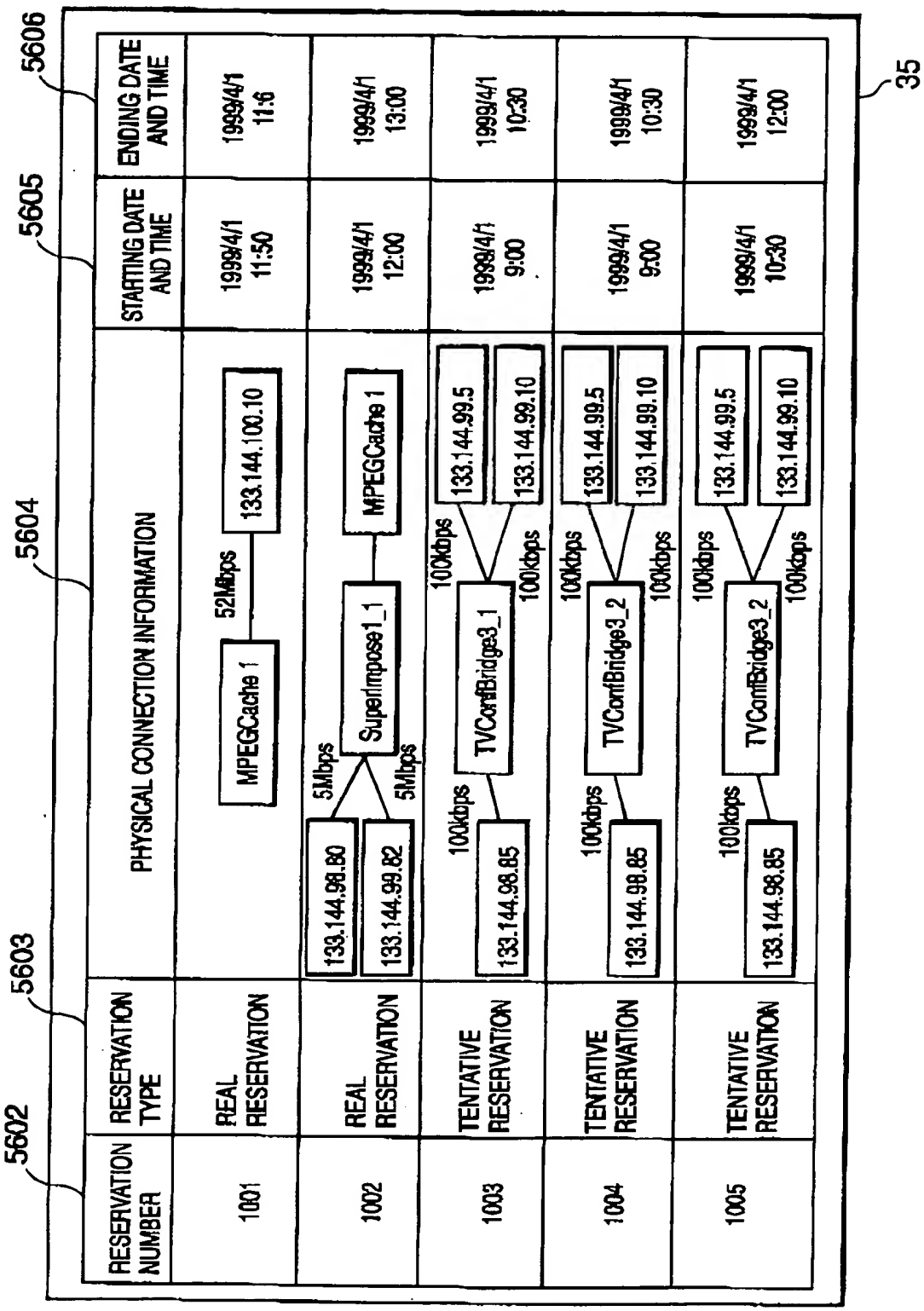
5602
5603
5604
5605
5606
35
RESERVATION NUMBER
RESERVATION TYPE
PHYSICAL CONNECTION INFORMATION
STARTING DATE AND TIME
ENDING DATE AND TIME
1001
REAL RESERVATION
MPEGCache 1
52Mbps
133.144.100.10
1999/4/1 11:50
1999/4/1 11:6
1002
REAL RESERVATION
133.144.98.80
133.144.99.82
5Mbps
5Mbps
SuperImpose1_1
MPEGCache 1
1999/4/1 12:00
1999/4/1 13:00
1003
TENTATIVE RESERVATION
133.144.98.85
100kbps
100kbps
TVConfBridge3_1
100kbps
100kbps
133.144.99.5
133.144.99.10
1999/4/1 9:00
1999/4/1 10:30
1004
TENTATIVE RESERVATION
133.144.98.85
100kbps
100kbps
TVConfBridge3_2
100kbps
100kbps
133.144.99.5
133.144.99.10
1999/4/1 9:00
1999/4/1 10:30
1005
TENTATIVE RESERVATION
133.144.98.85
100kbps
100kbps
TVConfBridge3_2
100kbps
100kbps
133.144.99.5
133.144.99.10
1999/4/1 10:30
1999/4/1 12:00

FIG. 19

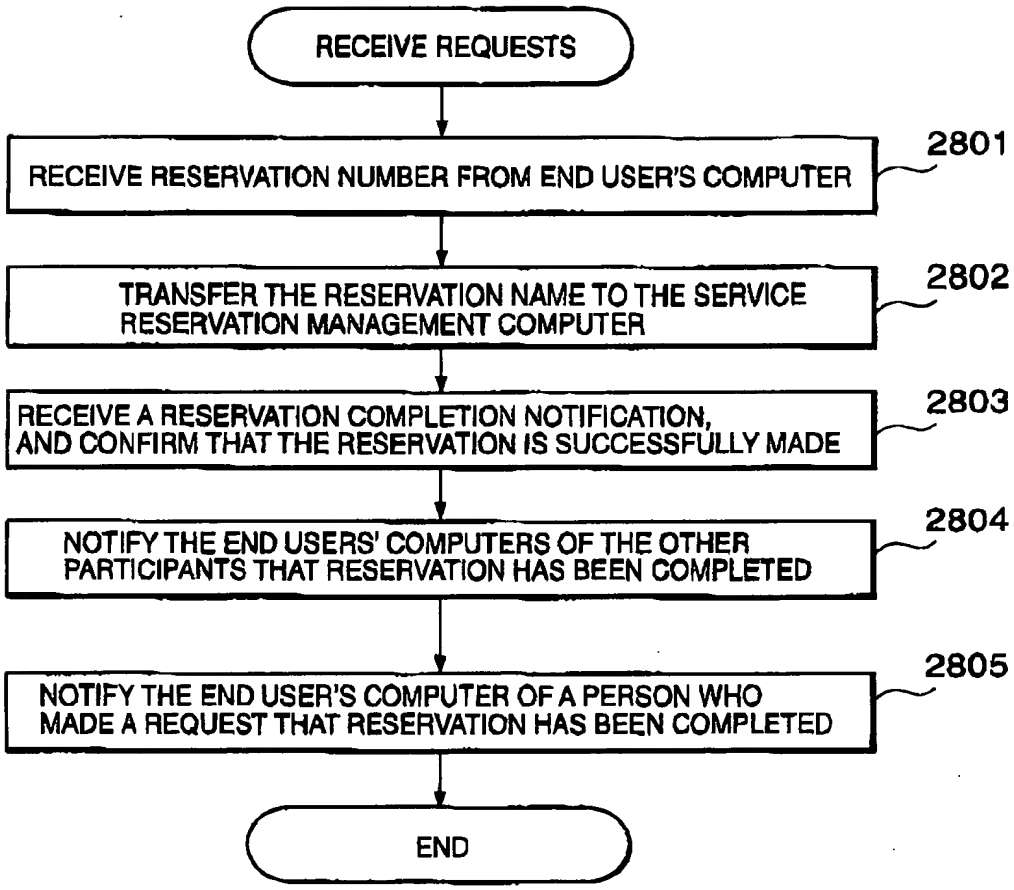

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FIG. 20

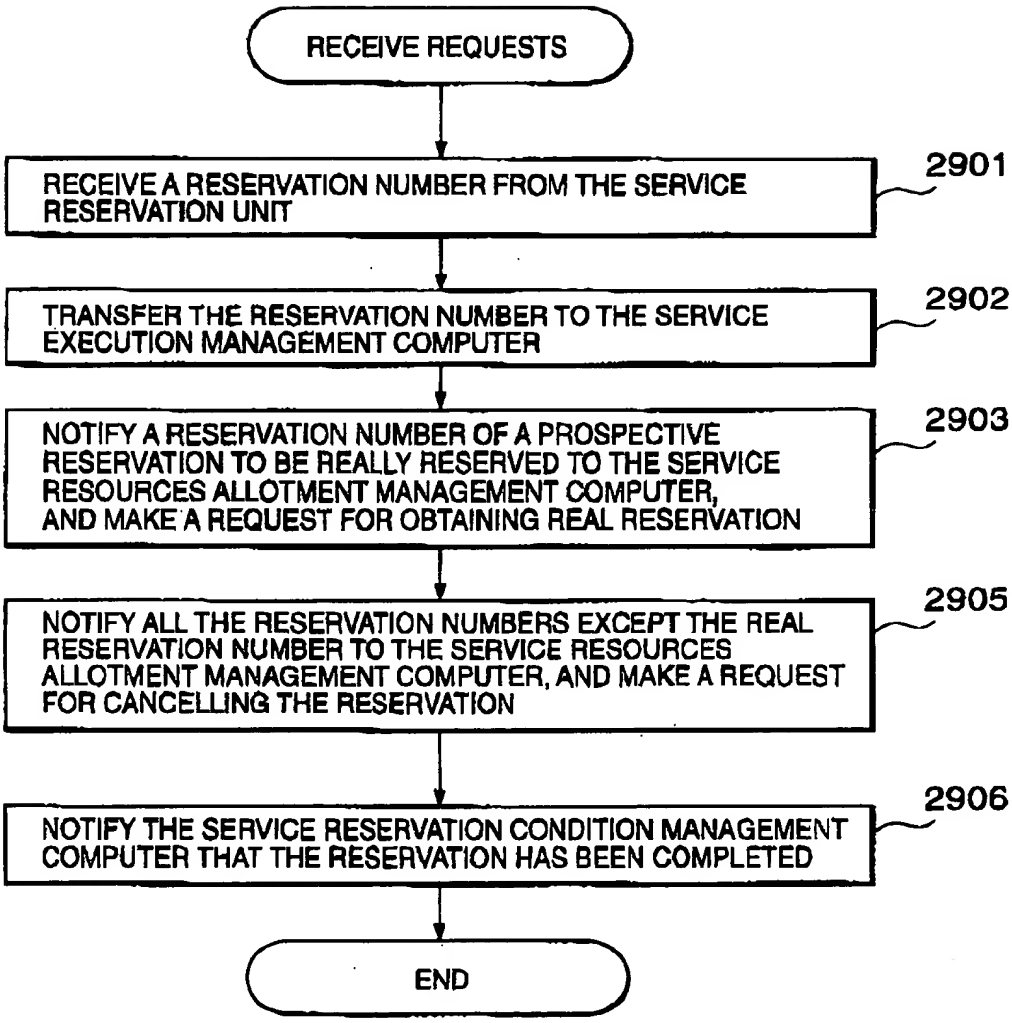

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FIG. 21

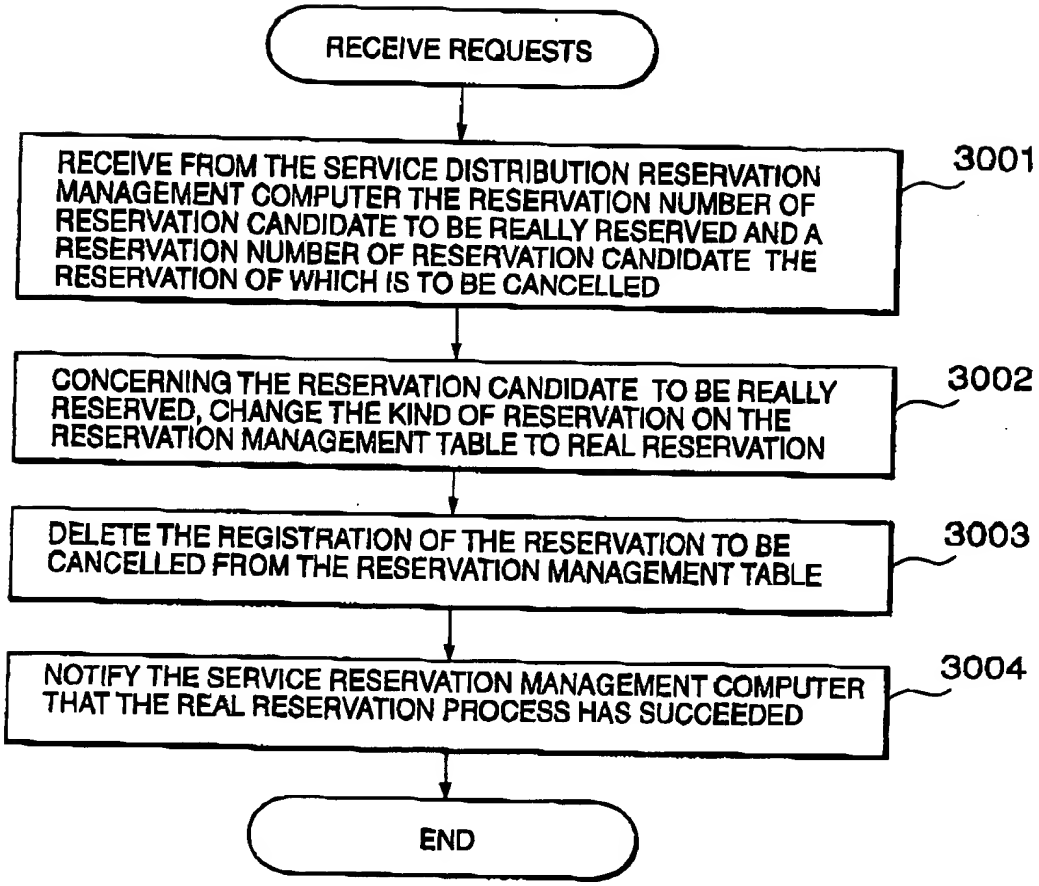

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FIG. 22

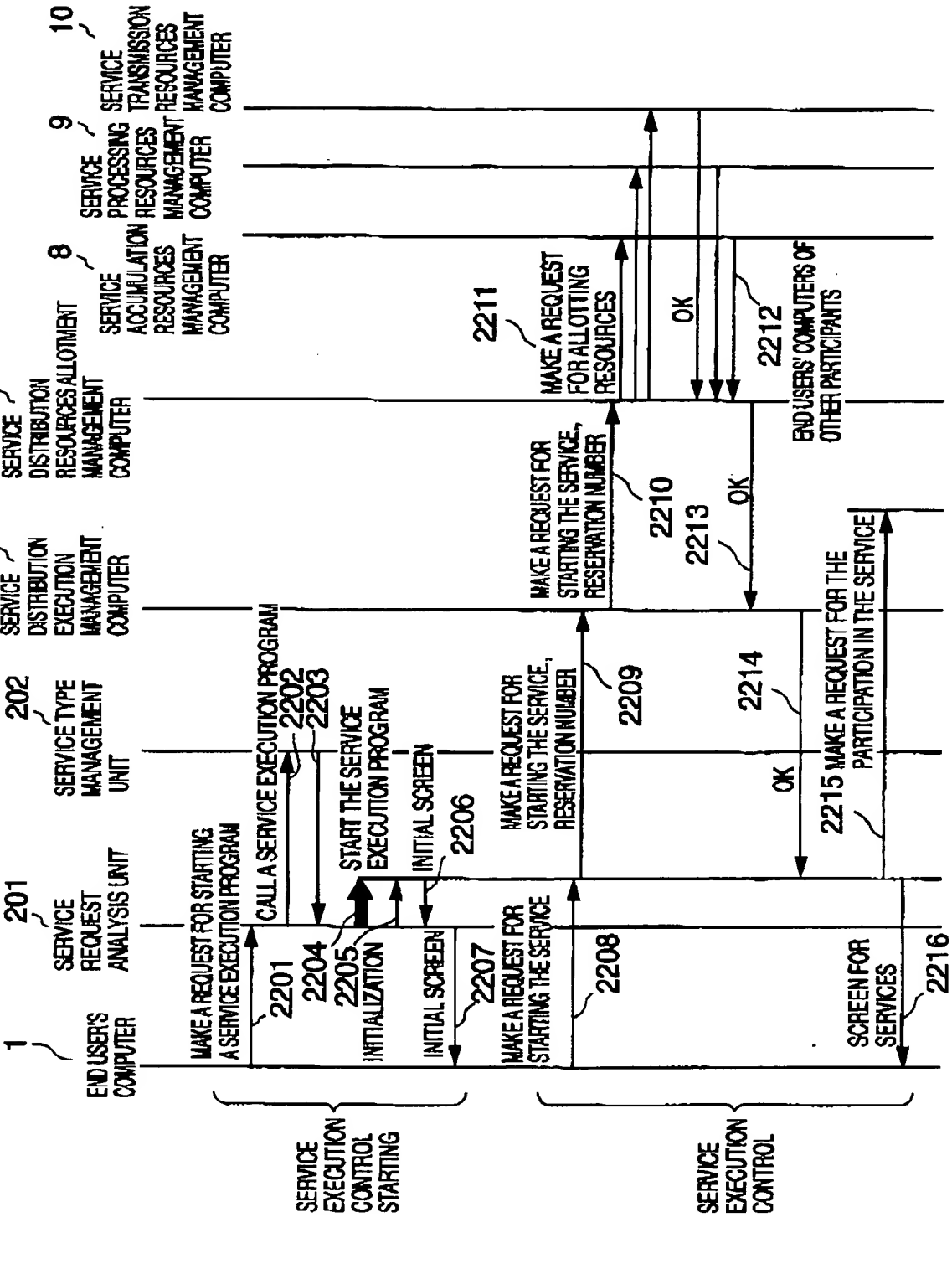
1 END USERS COMPUTER
201 SERVICE REQUEST ANALYSIS UNIT
202 SERVICE TYPE MANAGEMENT UNIT
4 SERVICE DISTRIBUTION EXECUTION MANAGEMENT COMPUTER
7 SERVICE DISTRIBUTION RESOURCES ALLOTMENT MANAGEMENT COMPUTER
8 SERVICE ACCUMULATION RESOURCES MANAGEMENT COMPUTER
9 SERVICE PROCESSING RESOURCES MANAGEMENT COMPUTER
10 SERVICE TRANSMISSION RESOURCES MANAGEMENT COMPUTER
MAKE A REQUEST FOR STARTING A SERVICE EXECUTION PROGRAM
2201
CALL A SERVICE EXECUTION PROGRAM
2202
2203
START THE SERVICE EXECUTION PROGRAM
2204
INITIALIZATION
2205
INITIAL SCREEN
2206
INITIAL SCREEN
2207
MAKE A REQUEST FOR STARTING THE SERVICE
2208
MAKE A REQUEST FOR STARTING THE SERVICE, RESERVATION NUMBER
2209
MAKE A REQUEST FOR STARTING THE SERVICE, RESERVATION NUMBER
2210
MAKE A REQUEST FOR ALLOTTING RESOURCES
2211
OK
2212
END USERS' COMPUTERS OF OTHER PARTICIPANTS
OK
2213
OK
2214
2215 MAKE A REQUEST FOR THE PARTICIPATION IN THE SERVICE
SCREEN FOR SERVICES
2216
SERVICE EXECUTION CONTROL STARTING
SERVICE EXECUTION CONTROL

FIG. 23

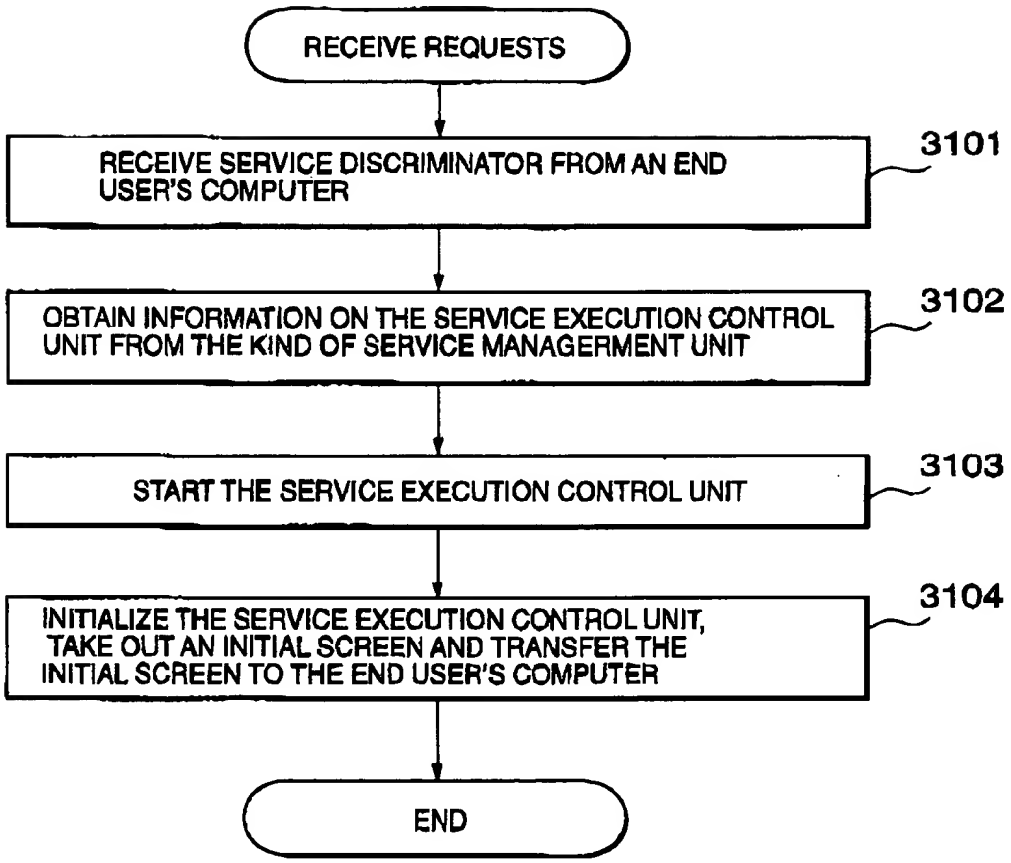

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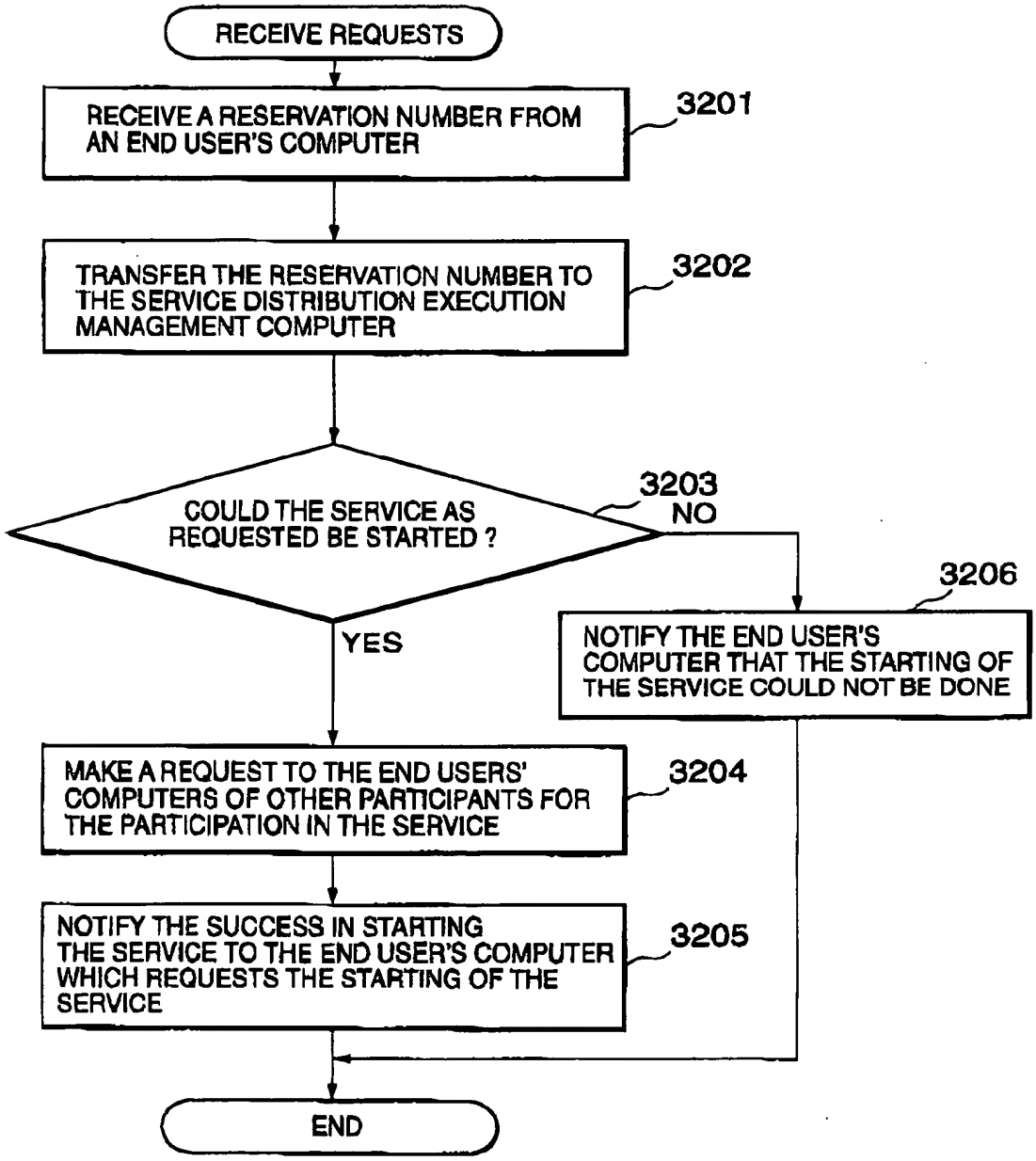
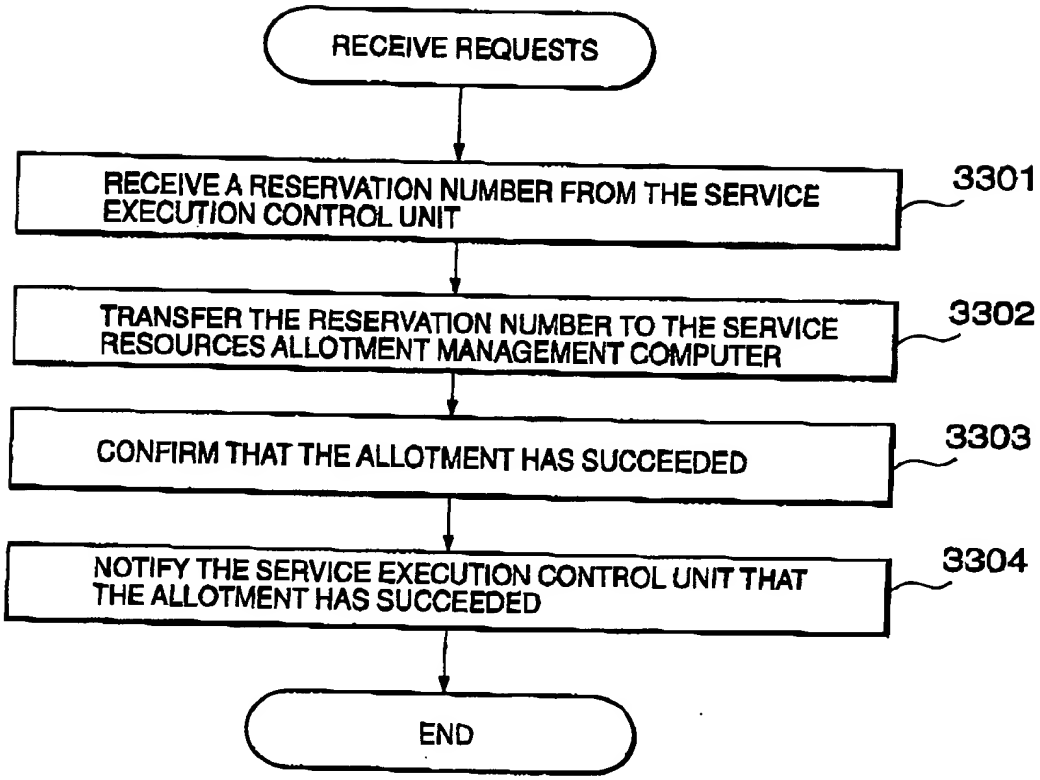
FIG. 24



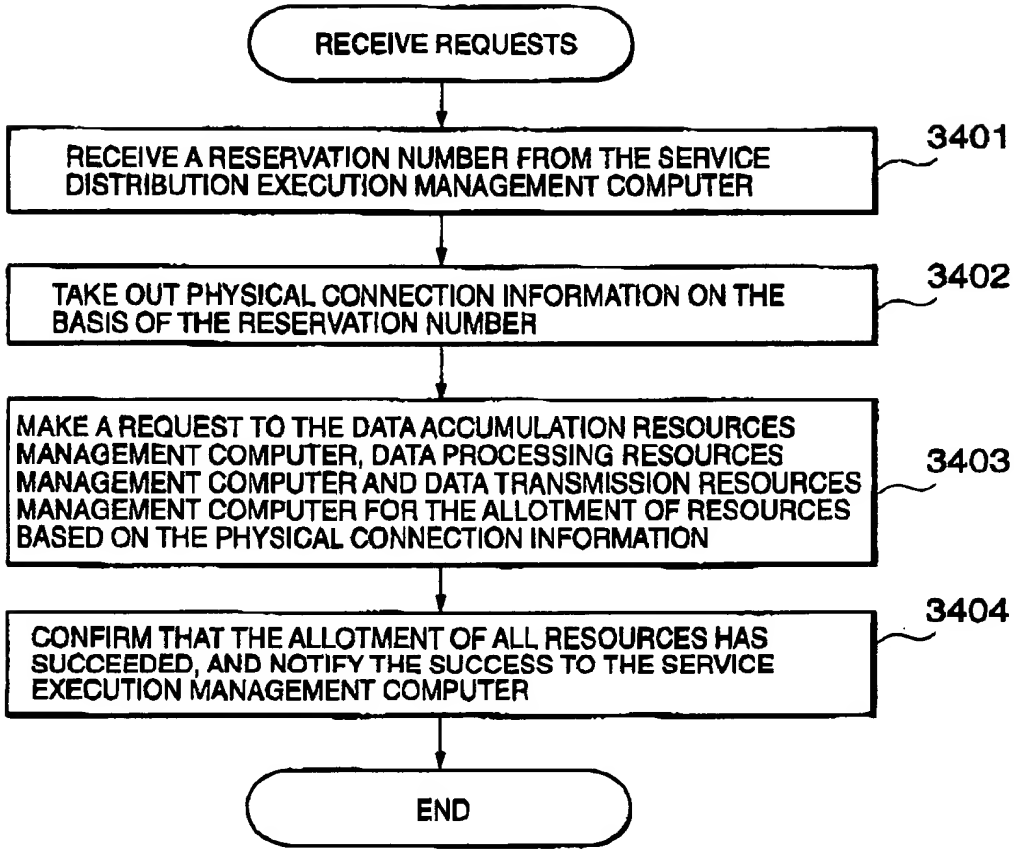
0054050 "0950600

FIG. 25



0960500.000600

FIG. 26



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